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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION: 2013-029 RS
VARIOUS LOCATIONS IN KANE COUNTY
INTERMITTENT RESURFACING
KANE COUNTY
C-91-349-13

FOR GENERAL LOCATION MAP, SEE SHEET NO. 4

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN: THE VILLAGE OF BIG ROCK THE VILLAGE OF NORTH AURORA THE VILLAGE OF PINGREE GROVE

THE VILLAGE OF SUGAR GROVE THE CITY OF BATAVIA

0 100' 200' 300' - 1" = 100'
0 10' 20' 30' - 1" = 10'
0 50' 100' - 1" = 50'
0 50' 100' - 1" = 40'
0 50' 100' - 1" = 30'
0 50' 100' - 1" = 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

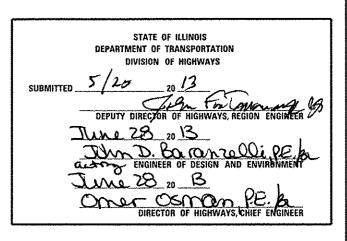
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

PROJECT ENGINEER: DANIEL WILGREEN (847) 705-4240 PROJECT MANAGER: KEN ENG (847) 705-4247

**CONTRACT NO. 60W65** 

D-91-349-13





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### INDEX OF SHEETS

### STATE STANDARDS

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
*	TITLE SHEET	000001 - <b>06</b>	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	701011 - <i>03</i>	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
3	SUMMARY OF QUANTITIES	701301 - <i>04</i>	LANE CLOSURE, 2L. 2W, SHORT TIME OPERATIONS
4	GENERAL LOCATION MAP	701306 - <b>03</b>	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY
5	ROUTE INFORMATION	701311- 03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
6	SUMMARY OF INTERMITTENT RESURFACING SCHEDULE		
7-9	INTERMITTENT RESURFACING SCHEDULE	701336 - <i>06</i>	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES
10	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	701421 <b>- 05</b>	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
11	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)	701426- <i>05</i>	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
12	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701427-01	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701501 - <i>06</i>	URBAN LANE CLOSURE, 2L. 2W, UNDIVIDED
14 15	TRAFFIC CONTROL AND PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)  PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC	701502 <i>-05</i>	URBAN LANE CLOSURE, 2L, 2W. WITH BIDIRECTIONAL LEFT TURN LANE
,,,	STAGING (TC-16)	701001 00	
16	ARTERIAL ROAD INFORMATION SIGN (TC-22)	701601 - <i>08</i>	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
17	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05, SHEET 1 OF 6)	701602-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
18	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING (TS-07)	701606 <i>-08</i>	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
		701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
		701901- <i>03</i>	TRAFFIC CONTROL DEVICES

HOT-MIX ASPHALT MIXTURE RE	EQUIREMENTS
MIXTURE TYPE	AIR VOIDS (%) @ N <sub>DES.</sub>
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5MM), 2"	4% <b>©</b> 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

### GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (OR TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (OR ISTHA)

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL INTERMITTENT RESURFACING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER AT (847) 741-9857 MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

THE EXISTING ROADWAY TYPICAL SECTION IS ASSUMED TO HAVE A 3 INCH HOT-MIX ASPHALT OVERLAY ON TOP OF A TEN INCH CONCRETE BASE.

ALL INTERMITTENT RESURFACING LOCATIONS SHOWN IN THE PLANS ARE TWO (2) INCH MILL AND RESURFACE ONLY. THE MINIMUM WIDTH FOR INTERMITTENT RESURFACING SHALL BE THREE (3) FEET.

NO PATCHING OR RESURFACING IS TO BE DONE WITHIN FIFTY (50) FEET OF ANY RAILROAD CROSSING.

THE COST OF ANY PARTIAL OR FULL DEPTH PATCHING REQUIRED AFTER THE REMOVAL OF THE EXISTING 2 INCH HOT-MIX ASPHALT SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

ANY DETECTOR LOOPS DAMAGED BY MILLING SHALL BE REPLACED IN KIND.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO QUANTIFY LOOP REPLACEMENTS NEEDED AND PROVIDE THE RESIDENT ENGINEER THIS INFORMATION PRIOR TO GRINDING OR REMOVAL.

ALL LOOP DETECTOR LOCATIONS SHALL BE CURB MARKED BY THE CONTRACTOR PRIOR TO MILLING FOR THE PURPOSE OF REESTABLISHING DETECTOR LOOP LAYOUT AFTER THE RESURFACING IS COMPLETED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H),

OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

ANY MILLED PAVEMENT IS TO BE RESURFACED BY THE END OF EACH DAY AND OPEN TO TRAFFIC.

TOTAL SHEE SHEETS NO.

KANE 18 2

CONTRACT NO. 60W65

COUNTY

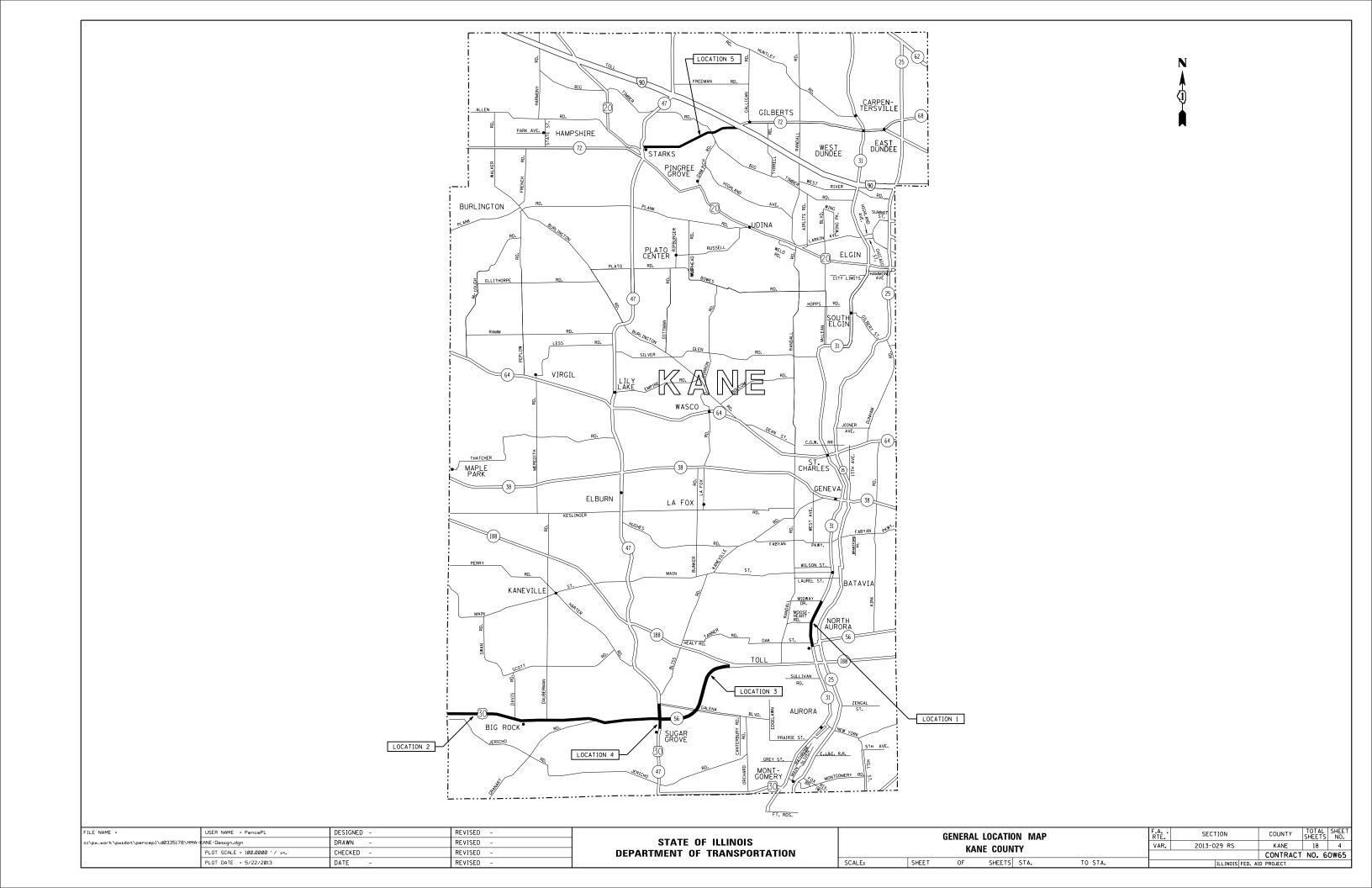
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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INDEX	0F	SHEETS,	STATE	STANDARDS	AND	GENERAL NOT	ES	VAR,	2013-029 RS
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CODE NO	ITEM	UNIT	TOTAL	100% STATE 0005				nterritorial maria del mar	CODE NO	ITEM	UNIT	TOTAL OUANTITIES	100% STATE 0005	The state of the s	98-991-9991-991-991-991-991-991-991-991-	ALEXANDER PARENTAL PA		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	4	- 4		-			* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE (	" F00T	100	100	dischinists			<del></del>	-
40600300	AGGREGATE (PRIME COAT)	TON	16	16		american	***************************************		* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 2	4" F00T	50	50	A1 10 10 10 10 10 10 10 10 10 10 10 10 10	-			+
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAY	S TON	12	12					* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	62	62					+
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOIN	SO YD	236	236		The state of the s	The second secon		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOV	AL EACH	62	62				·	-
			a security and a secu														······	-
	HOT-MIX ASPHALT SURFACE COURSE.	TON	882	882					* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	100	100					
	MIX "D", N70		-				· ·		20030850	TEMPORARY INFORMATION SIGNING	SO FT	257	257				<del></del>	+
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	7867	7867														-
60300305	FRAMES AND LIDS TO BE ADJUSTED	ЕАСН	5	5	PETERVA PARAMETERS AND	AN ENVIRONMENT OF THE PROPERTY	Alleria de Caracteria de Carac				T T T T T T T T T T T T T T T T T T T			an e e extraologo destrata de la companya de la com				
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67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	6	6			With the state of			**************************************	-						<u></u>	+
67100100	MOBILIZATION	L SUM	ą.	1			***************************************				700							-
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1271	1271				VIII TO THE TOTAL										***************************************
70301000	WORK ZONE PAYEMENT MARKING REMOVAL	SO FT	424	424		-								1			-AII	
78000100	THERMOPLASTIC PAVEMENT MARKING -	SQ FT	36. 4	36. 4							A A A A A A A A A A A A A A A A A A A							
	LETTERS AND SYMBOLS	A CALLERY AND A						A CONTRACT OF THE PARTY AND TH							100			***************************************
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13874	13874			***************************************				A PARTICULAR PROPERTY OF THE PARTICULAR PROPERTY	TO THE PARTY OF TH						
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	SUMMARY - KANE COUNTY ROUTES	MUNICIPALITIES	SPEED LIMIT	EXISTING ADT (YEAR)
LOC. 1	IL 31 (MIDWAY DR. TO IL 56)	NORTH AURORA, BATAVIA, BATAVIA TWP., AURORA TWP.	30-45 MPH	14,000 (2011)
LOC. 2	US 30 (IL 47 TO DEKALB COUNTY LINE)	BIG ROCK, SUGAR GROVE, BIG ROCK TWP., SUGAR GROVE TWP.	35-55 MPH	10,400 (2011)
LOC. 3	IL 56 (I-88 TO IL 47)	SUGAR GROVE, SUGAR GROVE TWP.	55 MPH	19,300 (2011)
LOC. 4	IL 47 (CROSS ST. TO GALENA BLVD.)	SUGAR GROVE, SUGAR GROVE TWP.	45 MPH	17,800 (2011)
LOC. 5	IL 72 (I-90 TO IL 47)	PINGREE GROVE, UNINCORPORATED KANE COUNTY, RUTLAND TWP.	45-55 MPH	9,100 (2011)

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		HMA 2" MILL
	SUMMARY - KANE COUNTY ROUTES	& RESURFACE
		(SY)
LOC. 1	IL 31 (MIDWAY DR. TO IL 56)	1362
LOC. 2	US 30 (IL 47 TO DEKALB COUNTY LINE)	5424
LOC. 3	IL 56 (I-88 TO IL 47)	295
LOC. 4	IL 47 (CROSS ST. TO GALENA BLVD.)	190
LOC. 5	IL 72 (I-90 TO IL 47)	596
	KANE COUNTY TOTAL =	7867
		SY

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c:\pw_work\pwidot\pencepl\d0335178\HMA-	(ANE-Design.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF INTERMITTENT RESURFACING SCHEDULE	VAR. 2013-029 RS	KANE 18 6
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ROUTE	IL 31 (Midway Dr. to IL 56)						
	STREET	DIRECTION	LANE	PAVEMENT		REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WDTH	LENGTH	(SQ FT)	(SQ YD)
Midway Dr.		SB	2	6	80	480	53
		SB	2	3	40	120	13
		SB	2	3	50	150	17
	Millview Dr	SB	2	6	30	180	20
Millview Dr		SB	2	3	30	90	10
		SB	2	3	50	150	17
		SB	2	3	20	60	7
		SB	2	3	20	60	7
		SB	2	3	200	600	67
		SB	2	3	40	120	13
		SB	2	3	40	120	13
		SB	2	3	15	45	5
	Mooseheart Rd	SB	2	6	100	600	67
Mooseheart Rd		SB	2	6	6	36	4
		SB	2	6	6	36	4
		SB	2	12	40	480	53
		SB	2	4	70	280	31
	Oak St	SB	2	12	25	300	33
Oak St	IL 56	SB				0	0
IL 56	Oak St	NB				0	0
Oak St		NB	2	6	200	1200	133
		NB	2	3	100	300	33
		NB	2	3	100	300	33
		NB	2	3	50	150	17
		NB	2	3	50	150	17
		NB	2	3	100	300	33
		NB	2	12	20	240	27
		NB	2	3	75	225	25
		NB	2	6	30	180	20
	Mooseheart Rd	NB	2	6	200	1200	133
Mooseheart Rd		NB	2	6	40	240	27
		NB	2	3	60	180	20
		NB	2	6	60	360	40
		NB	2	6	50	300	33
		NB	2	3	10	30	3
		NB	2	4	150	600	67
		NB	2	3	50	150	17
		NB	2	4	100	400	44
		NB	2	3	125	375	42
		NB	2	12	10	120	13
		NB	2	3	150	450	50
		NB	2	6	50	300	33
	Millview Dr	NB	2	12	50	600	67
		TOTALS:			2692		1362
					FT		SY

	US 30 (IL 47 to DeKalb C						
CROS	SSTREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WDTH	LENGTH	(SQ FT)	(SQ YD)
IL 47		WB	1	12	3	36	4
	Municipal Dr	WB	2	12	3	36	4
Municipal Dr		WB		12	25	300	33
-	Airport Dr	WB		3	40	120	13
Airport Dr		WB		3	600	1800	200
		WB		3	100	300	33
		WB		3	60	180	20
		WB		12	4	48	5
		WB		12	12	144	16
		WB		12	12	144	16
		WB		3	500	1500	167
		WB		3	200	600	67
	Dugan Rd	WB		3	200	600	67
Dugan Rd		WB		3	300	900	100
		WB		3	300	900	100
·		WB		12	150	1800	200
		WB		12	10	120	13
		WB		12	50	600	67
		WB		6	50	300	33
		WB		6	50	300	33
		WB		3	150	450	50
		WB		3	200	600	67
	Dauberman Rd	WB		3	10	30	3
Dauberman Rd		WB		3	30	90	10
		WB		3	100	300	33
	Davis Rd	WB		3	600	1800	200
Davis Rd		WB		12	100	1200	133
		WB		3	40	120	13
		WB		12	30	360	40
		WB		12	20	240	27
		WB		3	40	120	13
	Big Rock Creek	WB		12	15	180	20
Big Rock Creek		WB		3	100	300	33
		WB		3	30	90	10
		WB		3	150	450	50
		WB		12	20	240	27
		WB		3	80	240	27
		WB		3	1000	3000	333
		WB		12	30	360	40
		WB		3	600	1800	200
		WB		3	900	2700	300
	Shaw Rd	WB		3	50	150	17
Shaw Rd		WB		3	1000	3000	333
		WB		12	10	120	13
		WB		3	300	900	100
		WB		3	50	150	17
		WB		3	1000	3000	333
	County Line Rd	WB		12	10	120	13
County Line Rd		EB		3	300	900	100
		EB		12	6	72	8
		EB		12	8	96	11
		EB		3	60	180	20
		EB		3	40	120	13
		EB		3	40	120	13
		EB		3	50	150	17
	Shaw Rd	EB		12	8	96	11
Shaw Rd	i i	EB	1	3	30	90	10

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SCALE:

INTERMITTENT RESURFACING SCHEDULE					F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	н з	31 & US	30		VAR.	2013-029 RS	KANE	18	7
	IL .						CONTRACT	NO. 6	OW65
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

ROUTE	US 30 (IL 47 to DeKalb C	county Line)		(Continued)			
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAI
FROM	ТО	(EB/WB)	NO.	PATCH	PATCH	AREA	ARE/
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YE
		EB		3	200	600	67
		EB		12	60	720	80
		EB		6	50	300	33
		EB		12	6	72	8
		EB		6	25	150	17
		EB		12	6	72	8
		EB		12	6	72	8
	Big Rock Creek	EB		3	30	90	10
Big Rock Creek		EB		3	100	300	33
		EB		3	50	150	17
		EB		12	6	72	8
		EB		12	30	360	40
		EB		12	6	72	8
		EB		12	30	360	40
		EB		12	6	72	8
		EB		12	8	96	11
		EB		3	150	450	50
	Davis Rd	EB		12	6	72	8
Dauberman Rd		EB		3	10	30	3
		EB		3	40	120	13
		EB		3	30	90	10
		EB		12	100	1200	133
		EB		3	150	450	50
		EB		6	30	180	20
		EB		12	8	96	11
		EB		3	20	60	7
		EB		12	10	120	13
		EB		3	40	120	13
		EB		3	150	450	50
		EB		3	150	450	50
		EB		3	30	90	10
		EB		3	100	300	33
		EB		3	200	600	67
	Dugan Rd	EB		3	200	600	67
Dugan Rd	Dagan Na	EB		3	250	750	83
Dagairta	+	EB		3	100	300	33
		EB		3	20	60	7
		EB		3	300	900	100
		EB		3	100	300	33
		EB		3	50	150	17
		EB		3	50	150	17
		EB		3	125	375	42
		EB		3	200	600	67
					200		
		EB		3	30	600	67
	Mi - i I D.:	EB				90	10
Municipal D	Municipal Dr	EB		3	30	90	10
Municipal Dr		EB	2	3	100	300	33
		EB	2	12	6	72	8
	IL 47	EB	2	3	125	375	42
		TOTALS:			13605		5424
		IOIALO.			FT		SY

IIS 30 8 II 56 VAR. 2013-029 RS KANE		ROUTE:	IL 56 (I-88 to IL 47)							
FROM										
NISSB   (1,2,3)   WDTH   LENGTH   (SQ TD)						PAVEMENT	PAVEMENT			
L47	FROM		ТО							
EB				(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)	
EB	IL-47			EB	1	12	4	48	5	
EB				EB	1	12	4	48	5	
EB				EB	1	12	4	48	5	
EB					1		4			
EB					1		4			
EB										
EB				_						
EB										
EB										
EB										
EB										
EB										
EB										
EB										
EB				EB	2		4	48		
EB				EB	2	12	4	48	5	
EB					2		4			
EB										
EB										
EB							·			
EB   2   12   4   48   5     Galena Blvd   EB   2   12   4   48   5     EB   1   6   10   60   7     EB   1   12   4   48   5     EB   2   12   4   48   5     Hankes Rd   EB   2   12   4   48   5     Hankes Rd   EB   2   12   4   48   5     EB										
EB   2   12   4   48   5     Galena Blvd   EB   1   6   10   60   7     EB   1   12   4   48   5     EB   2   12   4   48   5     Hankes Rd   EB   2   12   4   48   5     EB   2   12   4										
EB   2   12   4   48   5     Galena Blvd   EB   2   12   4   48   5     EB   1   6   10   60   7     EB   1   12   4   48   5     EB   2   12   4   48   5     Hankes Rd   EB   2   12   4   48   5     Hankes Rd   EB   2   12   4   48   5     EB										
EB										
Galena Blvd EB 2 12 4 48 5  Galena Blvd EB 2 12 4 48 5  EB 1 6 10 60 7  EB 1 1 6 10 60 7  EB 1 1 12 4 48 5  EB 2 12 4 48 5  Hankes Rd EB 2 12 4 48 5  Hankes Rd EB 2 12 4 48 5  EB 2 12 4 48 5  Hankes Rd EB 2 12 4 48 5  EB 2 12 4 48 5  Hankes Rd EB 2 12 4 48 5  EB 2 12 4 4 48 5  EB 2 12 4 4 48 5  EB 2 12 4 4 48 5  EB 2										
Galena Blvd										
Ball										
EB			Galena Blvd		2					
EB	Galena B	lvd		EB	1		10	60	7	
EB   2   12   4   48   5     EB   2   8   6   48   5     Hankes Rd   EB   2   12   4   48   5     Hankes Rd   EB   2   12   4   48   5     Hankes Rd   EB   2   12   4   48   5     EB   3   12   4   48   5     EB   4   12   4   48   5     EB   5   12   4   48   5     EB   6   12   12   4   48   5     EB   7   12   7   7     EB   8   8   8   7   7     EB   9   1   12   7   7     EB   9   1   15     EB   9   1   12   7   7     EB   9   1   12   7   7     EB   9   1   15     EB   9   1   12   7   7     EB   9   1   12   7     EB   9				EB	1	12	4	48	5	
EB				EB	2	12	4	48	5	
EB				EB	2	12	4	48	5	
Hankes Rd							6			
Hankes Rd										
Hankes Rd			Hankes Rd							
EB   2   12   4   48   5     EB   3   12   4   48   5     EB   4   12   4   48   5     EB   5   12   4   48   5     EB   6   12   12   4   48   5     EB   7   12   12   14   48   5     EB   8   12   12   14   48   5     EB   9   12   14   14   14   15     EB   9   12   14   14   14   15     EB   9   15   15     EB   9   12   12   14   14   15     EB   9   15   15   15     EB   9   12   14   14   15     EB   9   15   15     EB   9   12   12   14   14   15     EB   9   15   15     EB   9   12   12   14   14   15     EB   9   15   15     EB   9   12   12   14   14   15     EB   9   15   15     EB   9   12   12   14   14   15     EB   9   15     EB   9   15     EB   9   15	Hankes I	D4	Tidrikes Ita							
EB   2   12   4   48   5     I-88   EB   2   12   4   48   5     I-88   WB   1   12   4   48   5     WB   1   12   4   48   5     WB   2   12   4   48   5      WB   2   13   4   48   5      WB   2   14   48   5      WB   2   15   6      WB   2   12   4   48   5      WB	i latikes i	Nu			<u> </u>					
EB							·			
EB   2   12   4   48   5     EB   2   12   4   48   5     I-88   EB   2   12   4   48   5     I-88   WB   1   12   4   48   5     WB   1   12   4   48   5     WB   2   12   4   48   5      WB   2   12										
BB   2   12   4   48   5     I-88   EB   2   12   4   48   5     I-88   WB   1   12   4   48   5     WB   1   12   4   48   5     WB   2   12   4   48   5      WB   2   12										
I-88										
NB							-			
WB			I-88							
WB   2   12   4   48   5	I-88				1					
WB   2   12   4   48   5				WB	1		4			
WB   2   12   4   48   5				WB	2	12	4			
WB   2   12   4   48   5							4			
WB   2   12   4   48   5										
WB   2   12   4   48   5										
WB   2   12   4   48   5     IL-47   WB   2   12   4   48   5      IL-47   WB   2   12   4   48   5      INTERMITTENT RESURFACING SCHEDULE   F.A.   SECTION   COUNTY     US 30 & IL 56   VAR.   2013-029 RS   KANE										
WB   2   12   4   48   5     IL-47   WB   2   12   4   48   5     IL-47   WB   2   12   4   48   5      TOTALS:   228   295     FT   SY     INTERMITTENT RESURFACING SCHEDULE   F.A.   SECTION   COUNTY     US 30 & IL 56   VAR.   2013-029 RS   KANE										
WB   2   12   4   48   5     IL-47   WB   2   12   4   48   5      IL-47   WB   2   12   4   48   5      TOTALS:   228   295     FT   SY      INTERMITTENT RESURFACING SCHEDULE   FAL SECTION   COUNTY     US 30 & IL 56   VAR   2013-029 RS   KANE     COUNTY   COUNTY   COUNTY     COUNTY   COUNTY     COUNTY   COUNTY   COUNTY   COUNTY     COUNTY   COUNTY   COUNTY   COUNTY     COUNTY   COUNTY   COUNTY   COUNTY   COUNTY     COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY     COUNTY   CO										
WB   2   12   4   48   5     IL-47   WB   2   12   4   48   5      TOTALS:   228   295     FT   SY      INTERMITTENT RESURFACING SCHEDULE   F.A.   SECTION   COUNTY     US 30 & IL 56   VAR.   2013-029 RS   KANE     COUNTY   COUNTY   COUNTY     COUNT										
WB   2   12   4   48   5										
WB   2   12   4   48   5										
WB   2   12   4   48   5     IL-47   WB   2   12   4   48   5     TOTALS:   228   295     FT   SY     INTERMITTENT RESURFACING SCHEDULE   F.A.   SECTION   COUNTY     US 30 & II 56   VAR   2013-029 RS   KANE										
IL-47   WB   2   12   4   48   5							4			
TOTALS:   228   295				WB	2					
TOTALS:   228   295			IL-47	WB		12	4	48	5	
FT   SY										
FT   SY				TOTAL S:			228		295	
INTERMITTENT RESURFACING SCHEDULE  ILS 30 & IL 56  F.A. SECTION COUNTY OF THE PROPERTY OF THE				IOTALS.						
IIS 30 8 II 56 VAR. 2013-029 RS KANE										T-0-
IIS 30 8 II 56 VAR. 2013-029 RS KANE			INTERMITTENT RE	SURFACING SCI	HEDULE		RTE.	SECTION	COUNTY	TOTA SHEE
	u [		US 30	0 & IL 56				2013-029 RS	KANE CONTRACT	18

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 5/22/2013	DATE -	REVISED -

SCALE:

ROUTE:	IL 47 (Cross St. to Galena	Blvd.)					
	•						
CROSS	STREET	DIRECTION	LANE	PAVEMENT	PAVEMENT	REPAIR	REPAIR
FROM	TO	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD)
Cross St		NB	1	12	4	48	5
		NB	1	12	4	48	5
		NB	2	12	4	48	5
		NB	2	12	4	48	5
		NB	2	12	4	48	5
		NB	2	12	4	48	5
		NB	2	12	4	48	5
		NB	2	12	4	48	5
		NB	2	12	4	48	5
	Galena Blvd	NB	2	12	50	600	67
Galena Blvd		SB	1	12	4	48	5
		SB	1	12	4	48	5
		SB	1	12	4	48	5
		SB	1	12	12	144	16
		SB	2	12	4	48	5
		SB	2	12	4	48	5
		SB	2	12	4	48	5
		SB	2	12	4	48	5
		SB	2	12	4	48	5
		SB	2	12	4	48	5
		SB	2	12	4	48	5
	Cross St	SB	2	12	4	48	5
		TOTALS:			142		190
		IOIALG.			FT		SY

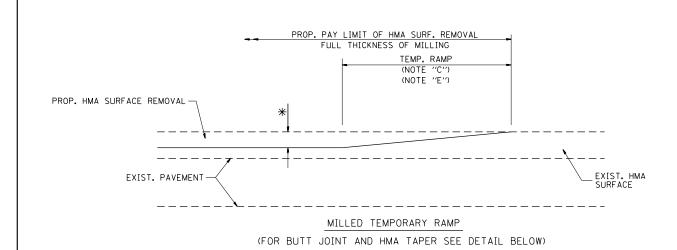
	I-90	EB		13	6	78	9
		EB		13	6	78	9
		EB		13	6	78	9
		EB		13	6	78	9
		WB		13	4	52	6
		EB		13	4	39 52	6
		WB EB		3 13	40 3	120 39	13 4
		EB		13	6	78 120	9
		WB		13	6	78 70	9
		WB		13	10	130	14
		EB		13	6	78	9
		WB		6	4	24	3
		EB		13	4	52	6
		EB		13	6	78	9
		EB		13	4	52	6
		EB		13	4	52	6
		EB		13	4	52	6
		WB		13	4	52 52	6
		WB EB		13 13	4	52 52	6
		CL		3	20	60	7
		WB		13	4	52	6
Big Timber Rd		EB		13	4	52	6
	Big Timber Rd	WB		4	100	400	44
		EB		4	100	400	44
		EB		13	4	52	6
		EB		13	4	52	6
		WB		13	4	52	6
		WB		6	4	24	3
		WB		6	4	24	3
		WB		13	4	52	6
		EB		13	4	39 52	6
		EB WB		13 13	10 3	130 39	14 4
		EB		3	6	18	2
		EB		6	3	18	2
		WB		13	4	52	6
		EB		13	4	52	6
		WB		13	4	52	6
		CL		3	80	240	27
		CL		3	80	240	27
rteniking Itu		CL		3	80	240	27
Reinking Rd	Reinking Rd	CL		3	100	300	33
	Deinking Dd	CL EB		5	20 80	100 240	11 27
		EB		3	50	150	17
		WB		6	120	720	80
IL 47		CL		3	30	90	10
		(NB/SB)	(1, 2, 3)	WIDTH	LENGTH	(SQ FT)	(SQ YD
FROM	TO	(EB/WB)	NO.	PATCH	PATCH	AREA	AREA

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -	
c:\pw_work\pwidot\pencepl\d0335178\HMA-I	(ANE-Design.dgn	DRAWN -	REVISED -	
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	
	PLOT DATE = 5/22/2013	DATE -	REVISED -	

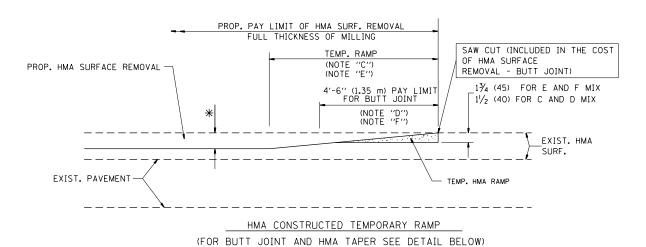
STATE	OF.	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE:

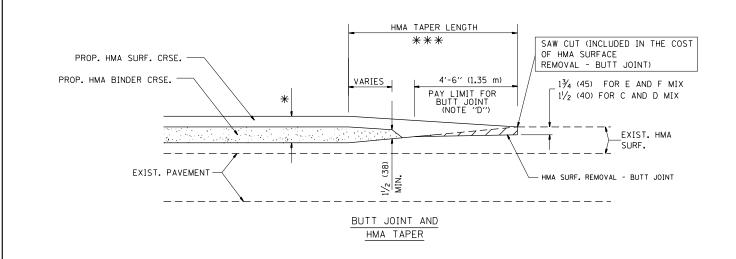
INTERMIT	TENT	RESURFAC	ING S	CHEDULE	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 47 AND IL 72			VAR.	2013-029 RS	KANE	18	9		
	15 7	7 AND IL	. /2				CONTRACT	NO.	50W65
SHEET	OF	SHEETS	STA.	TO STA.		TILL INDIS FED. A	AID PROJECT		



### OPTION 1



# OPTION 2 TYPICAL TEMPORARY RAMP



## TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = USER NAME = PencePL DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94

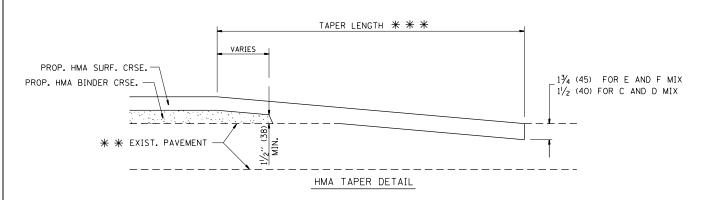
c1\pu\_work\pwidot\pencepl\d0335178\60W6 5-DistStd.dgn DRAWN - REVISED - A. ABBAS 03-21-97

PLOT SCALE = 100.0000 '/ in. CHECKED - REVISED - M. GOMEZ 04-06-01

PLOT DATE = 5/22/2013 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

# PROP. HMA OR PCC SURFACE REMOVAL - BUTT JOINT 30'-0" (9.0 m) (NOTE "A") 15'-0" (4.5 m) (NOTE "B") (NOTE "D") \*\* \* EXIST. PAVEMENT BUTT JOINT DETAIL



## TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

### NOTES

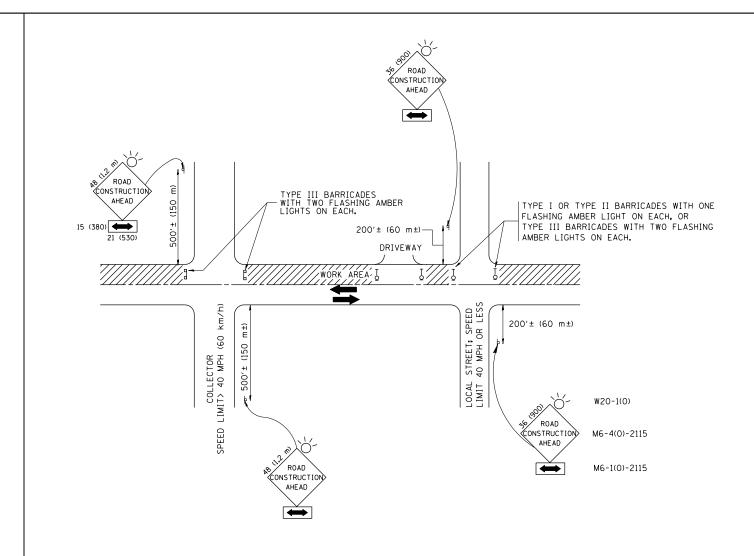
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- : MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

### BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE: NONE

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



### TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
  AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROLLTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

### B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

COUNTY

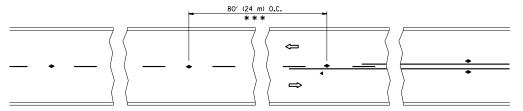
18 11

CONTRACT NO. 60W65

FILE NAME =	USER NAME = PencePL	DESIGNED	-	LHA	REVISED	-	J. OBERLE 10-18-95
c:\pw_work\pwidot\pencepl\d0335178\60W6	5-DistStd.dgn	DRAWN	-		REVISED	-	A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000 '/ in.	CHECKED	-		REVISED	-	A. HOUSEH 10-15-96
	PLOT DATE = 5/22/2013	DATE	-	06-89	REVISED	-T,	. RAMMACHER 01-06-0

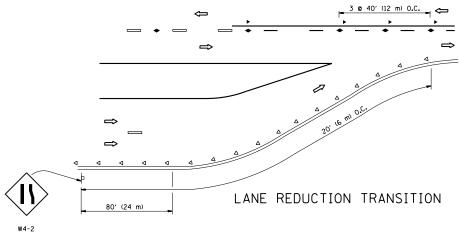
STATE	: OF	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

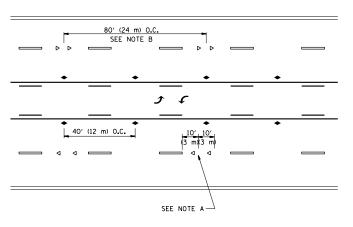
	TRAFFIC CONTROL		RTE.	SECTION		
	SIDE ROADS, INTERSI	IVEWAVS	VAR.	2013-029 RS		
TC-10						
	CHEET NO 1 OF 1 C	SHEETS	STA	TO STA	D	NO DICT NO 1 THE INOIS FED



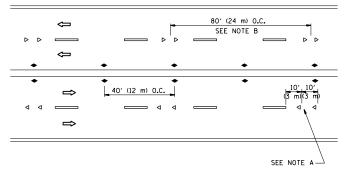
\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

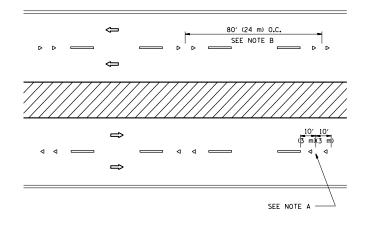




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

### GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

### LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

### SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

### DESIGN NOTES

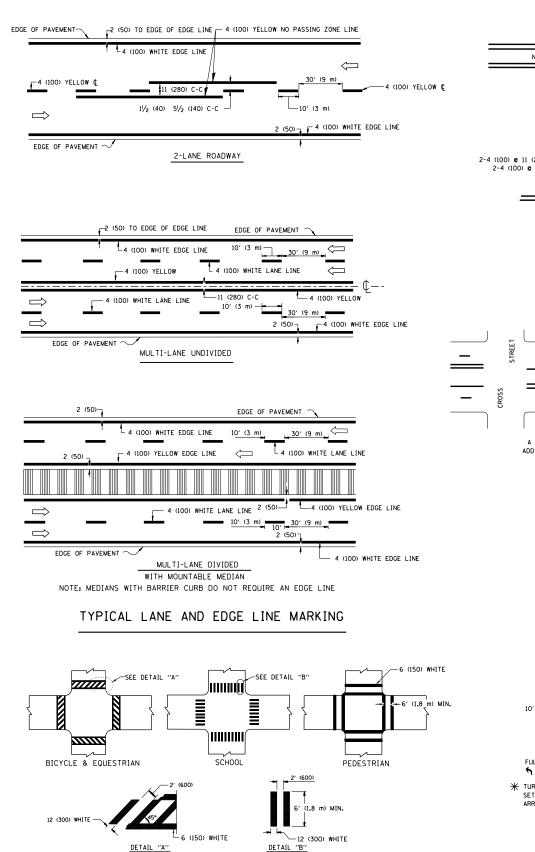
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

# # SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

I +	USER NAME = PencePL	DESIGNED -	REVISED -T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS		SECTION	COUNTY TOTAL SHEET SHEET NO.
c:\pw_work\pwidot\pencepl\d0335178\60W6b	-DistStd.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS		VAR.	2013-029 RS	KANE 18 12
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT NO. 60W65
1	PLOT DATE = 5/22/2013	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROA	D DIST. NO. 1   ILLINOIS FED.	



TYPICAL CROSSWALK MARKING

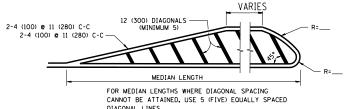
2-4 (100) YELLOW • 11 (280) C-C

NO DIAGONALS

4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES

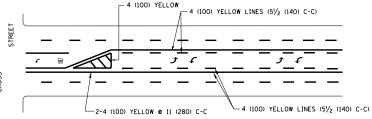
2-4 (100) YELLOW • 11 (280) C-C

### 4' (1.2 m) WIDE MEDIANS ONLY

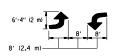


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

### MEDIANS OVER 4' (1.2 m) WIDE

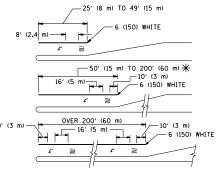


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

### TYPICAL PAINTED MEDIAN MARKING

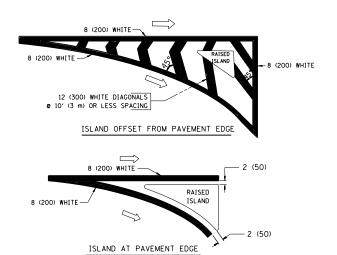


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m² )  $\P$  AREA = 20.8 SO. FT. (1.9 m²)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

### TYPICAL TURN LANE MARKING



### TYPICAL ISLAND MARKING

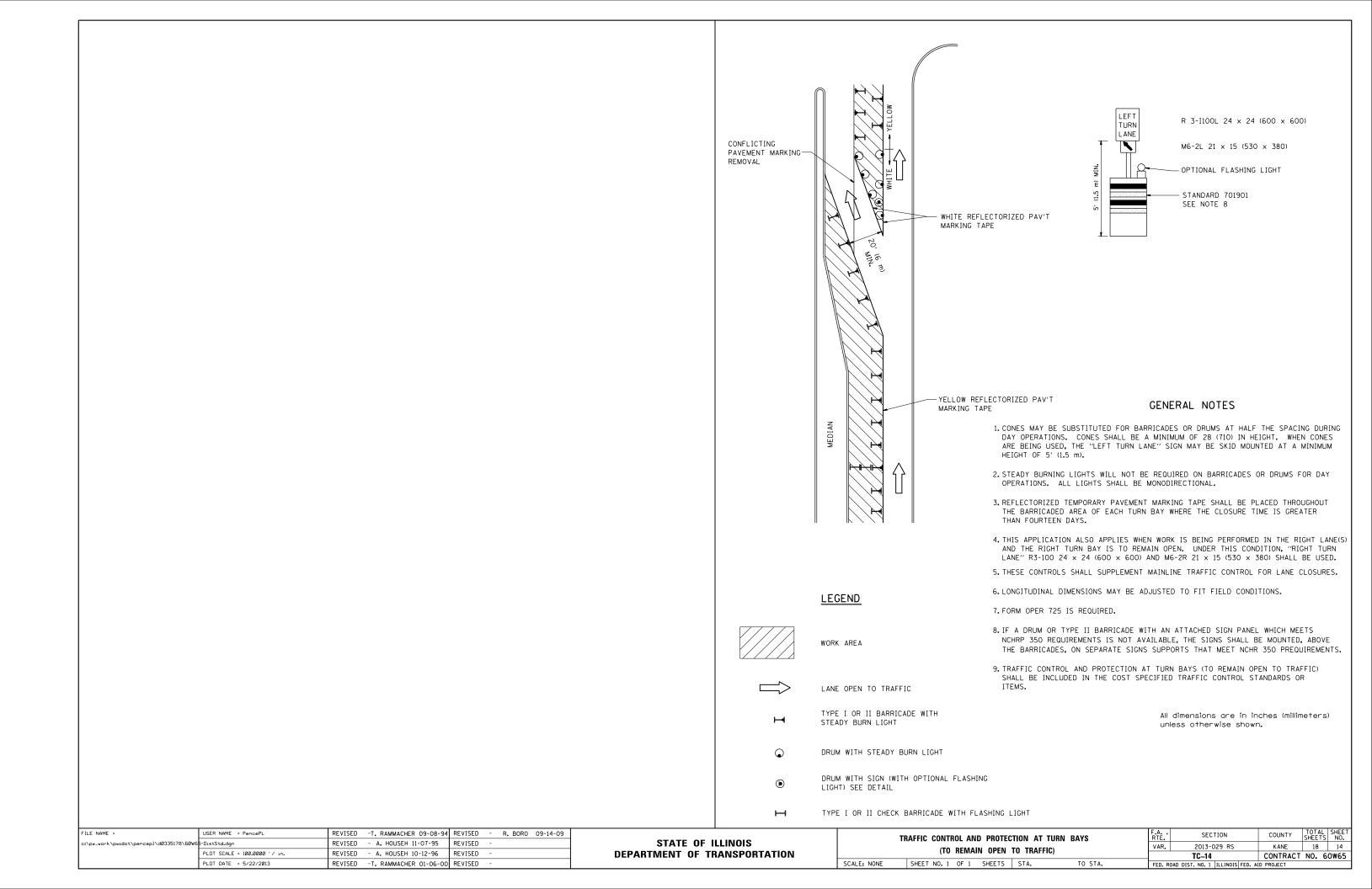
TURE OF MIRWING				DELENIE A DELUBYS
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) N ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"*3.6 SO. FT. (0.33 m²) EACH "X"*54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) <b>©</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

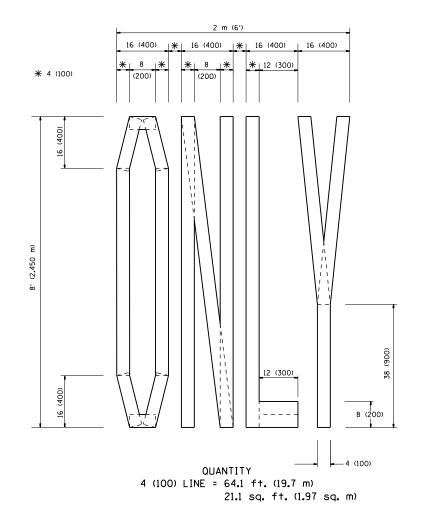
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

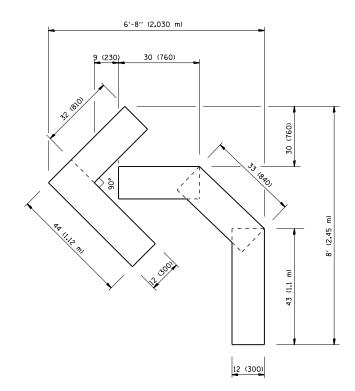
All dimensions are in inches (millimeters) unless otherwise shown.

TYPICAL	TURN	LANE	MARKIN
	•	•	

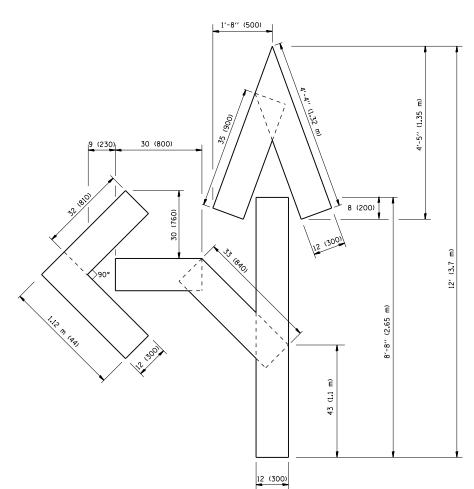
FILE NAME =	USER NAME = PencePL	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94			DISTRICT ONE		F.A	SECTION	COUNTY	TOTAL SH	1EET
c:\pw_work\pwidot\pencepl\d0335178\60W6	5-DistStd.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS				VAR.	2013-029 RS	KANE	18	13
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TYPICAL PAVEMENT MARKINGS				CONTRACT	NO. 60W	165
	PLOT DATE = 5/22/2013	DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED ROAD				







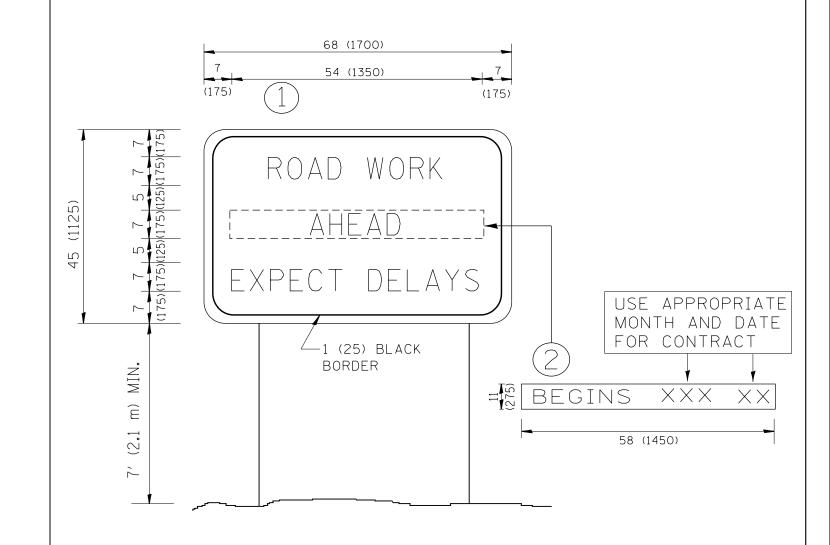
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED -T. RAMMACHER 06-0			PAVEMENT MARKING LETTERS AND SYMBOLS		LS	F.A RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\pencepl\d0335178\60W6	5-DistStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-0	STATE OF ILLINOIS	VAD 2017-020 BS		2013-029 RS	KANE	18 15			
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -T. RAMMACHER 03-0	DEPARTMENT OF TRANSPORTATION		FOR TRAFFIC STAGING			TC-16	CONTRAC	T NO. 60W65	
	PLOT DATE = 5/22/2013	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	ID PROJECT	



### NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

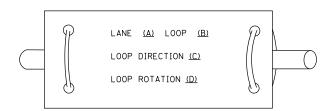
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

7	ILE NAME =	USER NAME = PencePL	DESIGNED -	REVISED - R. MIRS 09-15-97	·		ARTERIAL ROAD		F.A	SECTION	COUNTY	TOTAL	SHEET
- 1	::\pw_work\pwidot\pencep1\d0335178\60W6	5-DıstStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				VAR.	2013-029 RS	KANE	18	16
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99			INFORMATION SIGN			TC-22	CONTRACT	NO. 6	OW65
		PLOT DATE = 5/22/2013	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1   ILLINOIS FED. A	D PROJECT		

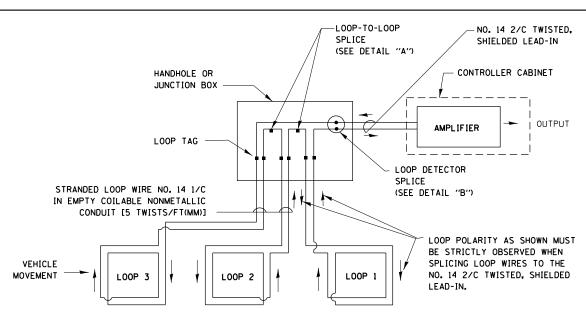
### LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

### LOOP LEAD-IN CABLE TAG

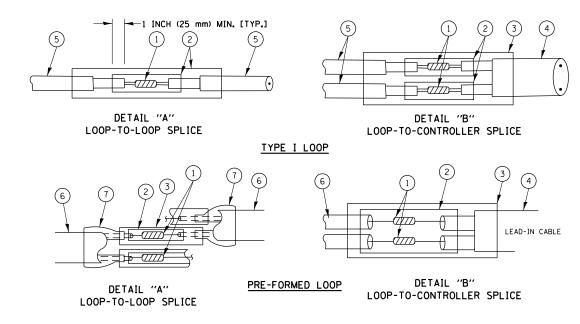


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP \*1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IE IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



### LOOP DETECTOR SPLICE

- $\hfill \hfill \hfill$
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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ı		PLOT DATE = 5/22/2013	DATE	-	10-28-09	REVISED -

STAT	E OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORT	ATION

	DI	F.A RTE.	SECTION	COUNTY	ITY TOTAL SHEETS				
	STANDARD TRAFF	IC SIGNAL	DECICN	DETAILS	VAR.	2013-029 RS	KANE	18	17
	STANDAND THATT	IC SIGNAL	DESIGN	DETAILS		TS-05	CONTRACT	NO. 6	60W65
SCALE: NONE	SHEET NO. 1 OF 6	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1   ILLINOIS FED. AI	D PROJECT		

# LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (980 mm) X WIDTH OF PAVED SHOULDER. PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (930 mm) X WIDTH OF PAVED SHOULDER. PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULDER SHOULDER. PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD BY SHOULDER SHOULDER. PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD BY SHOUL

# VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS, HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN. TRENCHED 1" (25 mm) UNIT DUCT (3) \*\* \*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

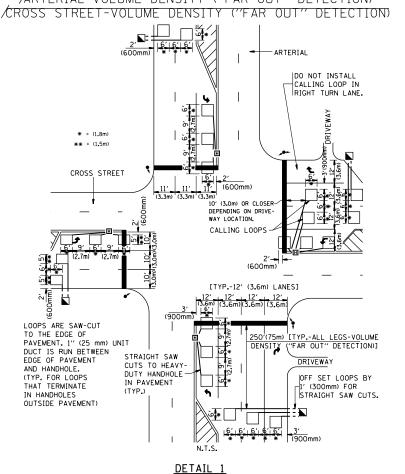
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

# VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) \* = (600 mm) \* = (600 mm) \* = (600 mm) | STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP.) PLACE HEAVY DUTY HANDHOLE BETWEEN FIRST AND SECOND LOOP AS SHOWN.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



N.T.S.

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PLOT DATE = 5/22/2013

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R.K.F.

REVISED

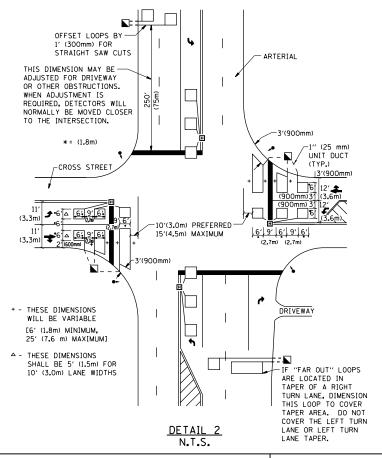
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### NOTES:

### VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIFLDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

### PLACEMENT OF DETECTORS

TO STA.

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

### JOTE.

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

## DEPA

DISTRICT 1 – DETECTOR LOOP INSTALLATION

DETAILS FOR ROADWAY RESURFACING

SHEET NO. 1 OF 1 SHEETS STA.

SCALE: NONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION